

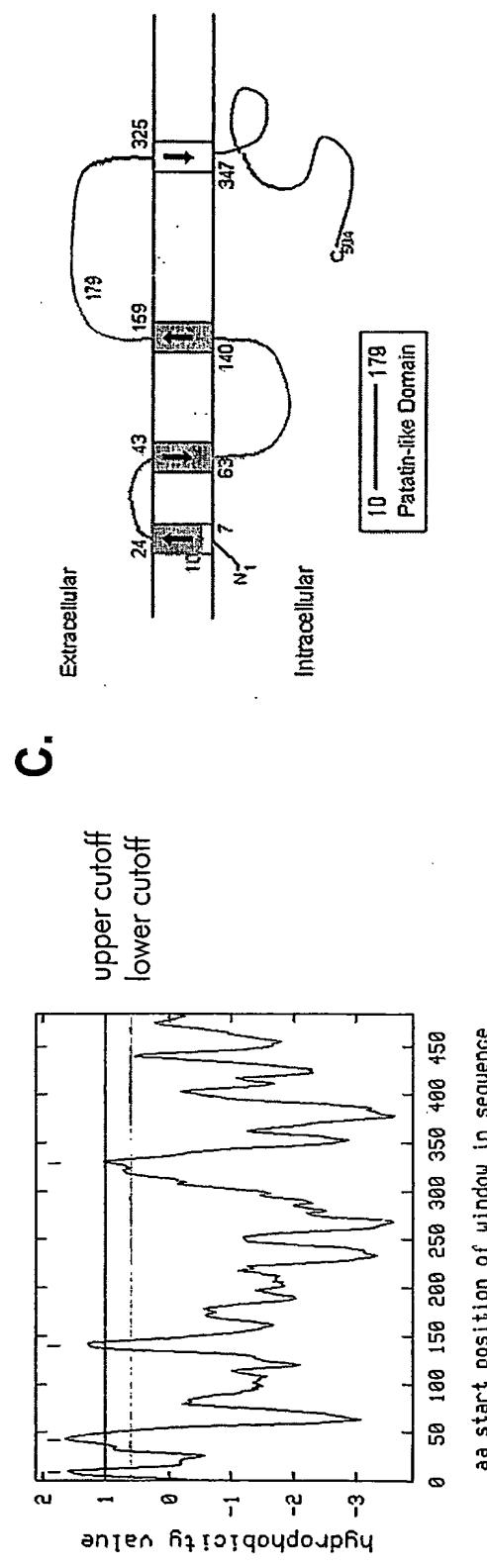
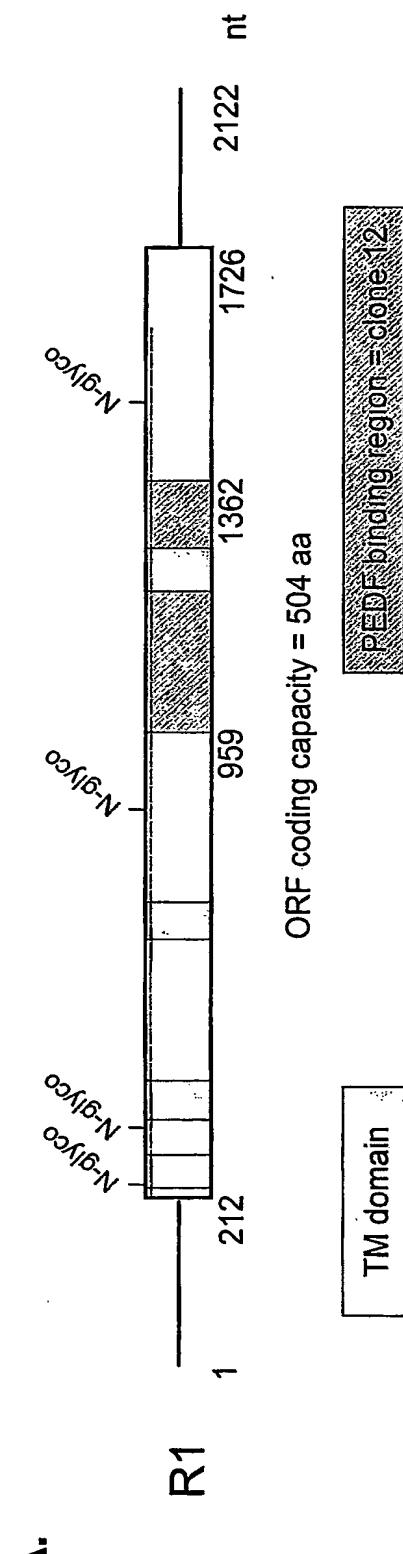
Figure 1.

Figure 1.

R1	adiponutrin	MFPREKTNWNLISFAGCGFLGVIYGVASCLREHAPFLVANATHIYGASAGALTATAVTVGCVLGEAGAKFIEVSKEARKRFLG	PIHPSFNLVKIIRSFLLKVLPADSHEASGRGLGSLTRVSDFGENVILSHFNNSKDELLQAINVCSSGFIFVICGLIPPSLQGVRYV
IF	S FL QG C C	NV QLI KI	LV DFR VVD L C F S F R

DEGGISDNPLPLYELKNTITVSPFSGESDICPQDSSNTNIELRVNTSIQFNLRNLRYRLSKA LFPPPEPLVLRREMCKQGYRDGLR
V V FIDA T P Y Y KVK FLHVDI KL LRLCTG L R FV DLK G I LR L AF

FLQRNGLLINRPNP-LLALPP-----ARPHGPEDDQAVESAQAE--DYSQLP--GEDH-ILEHLPARLINEALLE
EEK IC O G KSSSEGMDPEVAMPSWANMSLDSS SAAL RLEGD LL HLR SILPW ES DT SP AT S

ACVEPTDLTTLSNM[PVRLATAMMVPYTLPLESALSFTIRLLELPVEDIRWMKEQT GSICQ YLVMRAKRLKGRHLPS
EMIKDGGYMSKIC L I TMSYV L C V IAIQV VT M D VL LQWV SOVFTRVL CLLPASRSQM V

RILPEQVELRRVQSLPS-VPLSAAAYREALPGWMRNNNLSGDALAKWEECQRQLLGLFCTNVAFPEALMRAPADPAPAD
SSOOASPCPTPE DW CWT C PKGCCPAETKAATPRTSI RSS NEFLGNKVKPAGAEGLS --- SES EKSL ---

PASPQHQQLAGGPAPLLSTPAPEARPVIGALGL

253 GLINRPN PILALPPARP HGEPDKDQAV ESAQAEDYSQ LPGE 293
450 TNVAFFPEALR MRAPADPAPA PADPASPQHQ LAGPAPLLST PAPEARPVIG ALGL 504

Figure 1.
F.

Homologous patatin phospholipase A (PLA) active site in R1: S47 and D166

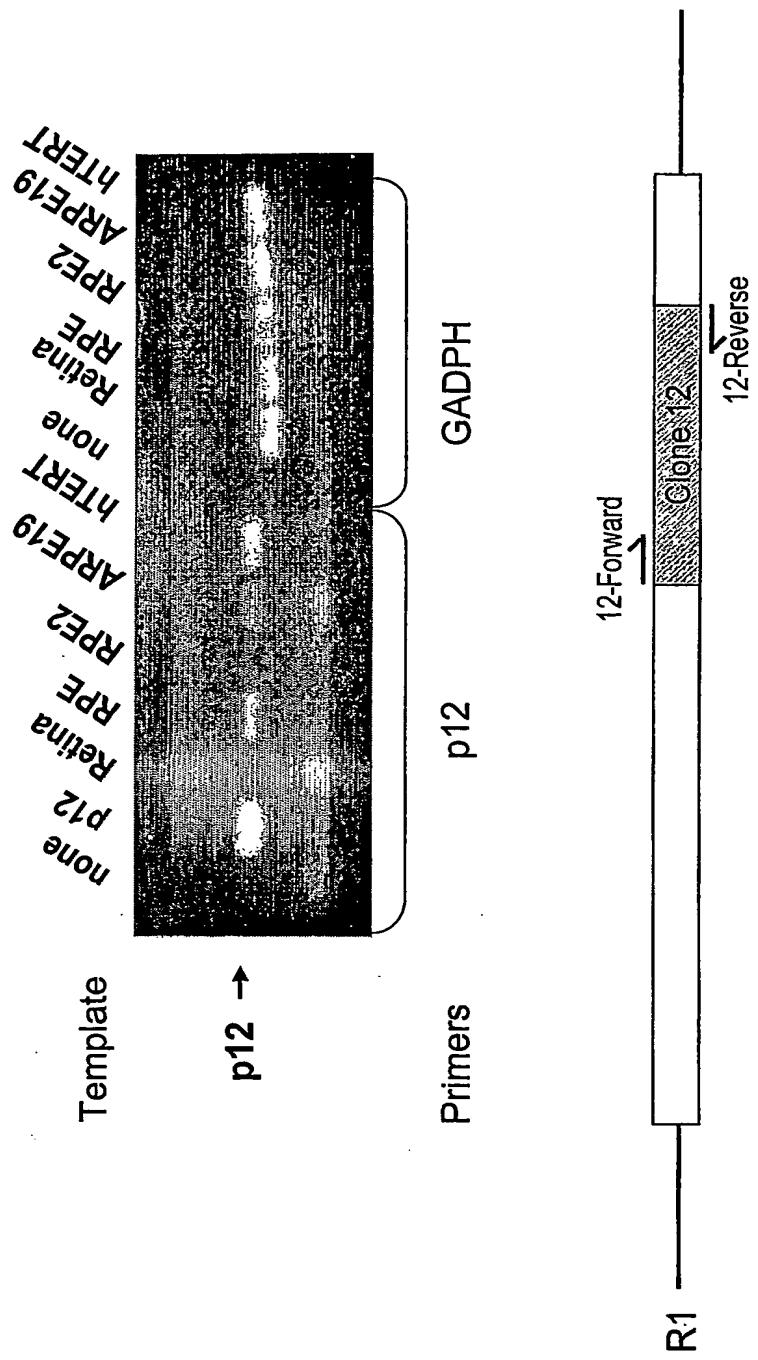
Active site serine

NA	THIYGASAGA	LTA	R1
YF	DVIGGT S TGG	LLT	Patatin B2
CA	TYVAGL S GST	WYM	cPLA2

Active site aspartic

SIQ	GVRV D GGIS	DNLPLYE	R1
ARY	EFNL D GAVA	TVGDPAL	Patatin B2
KSX	KIHVV D SGL-	TENLPPYB	cPLA2

Figure 2.



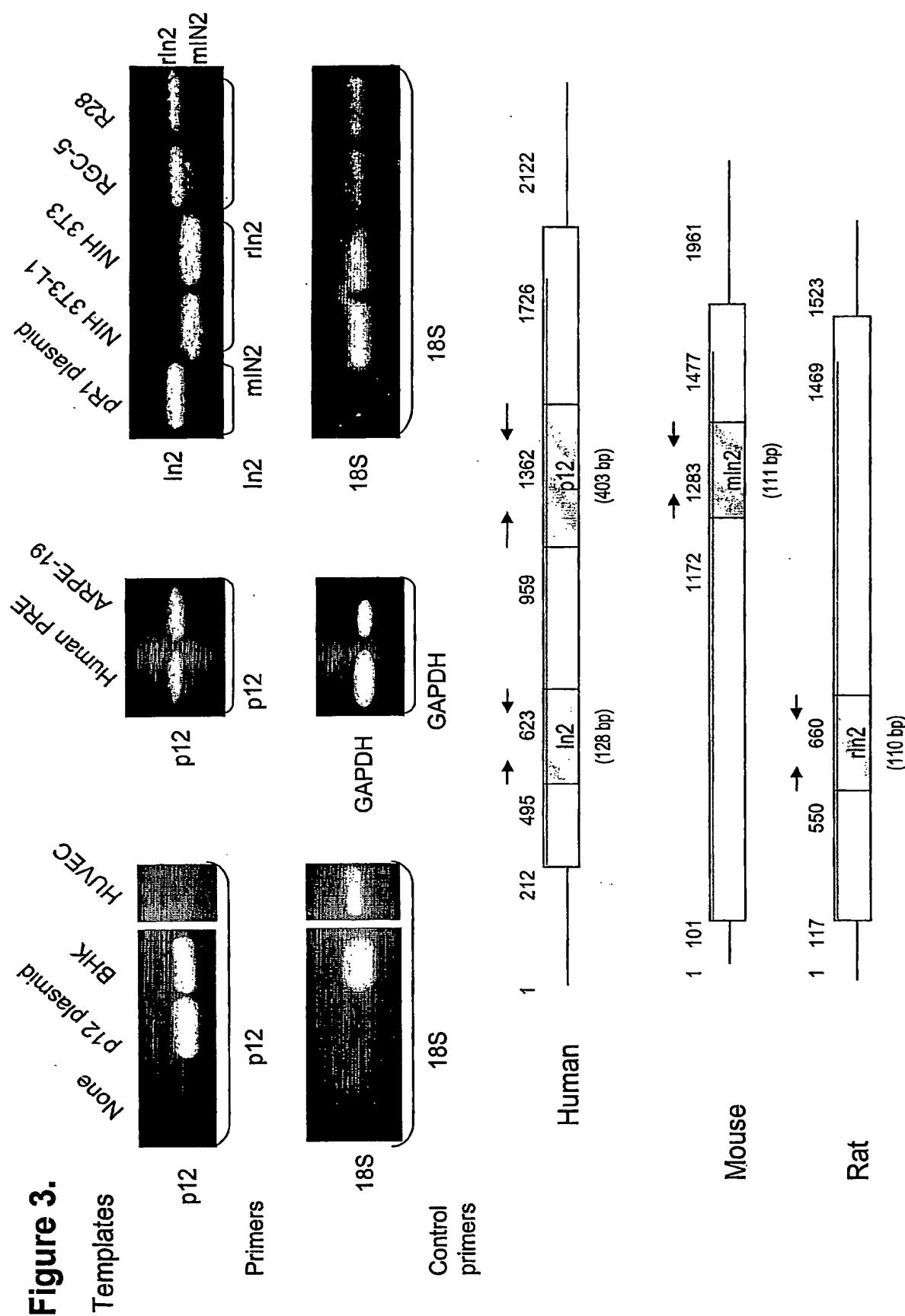
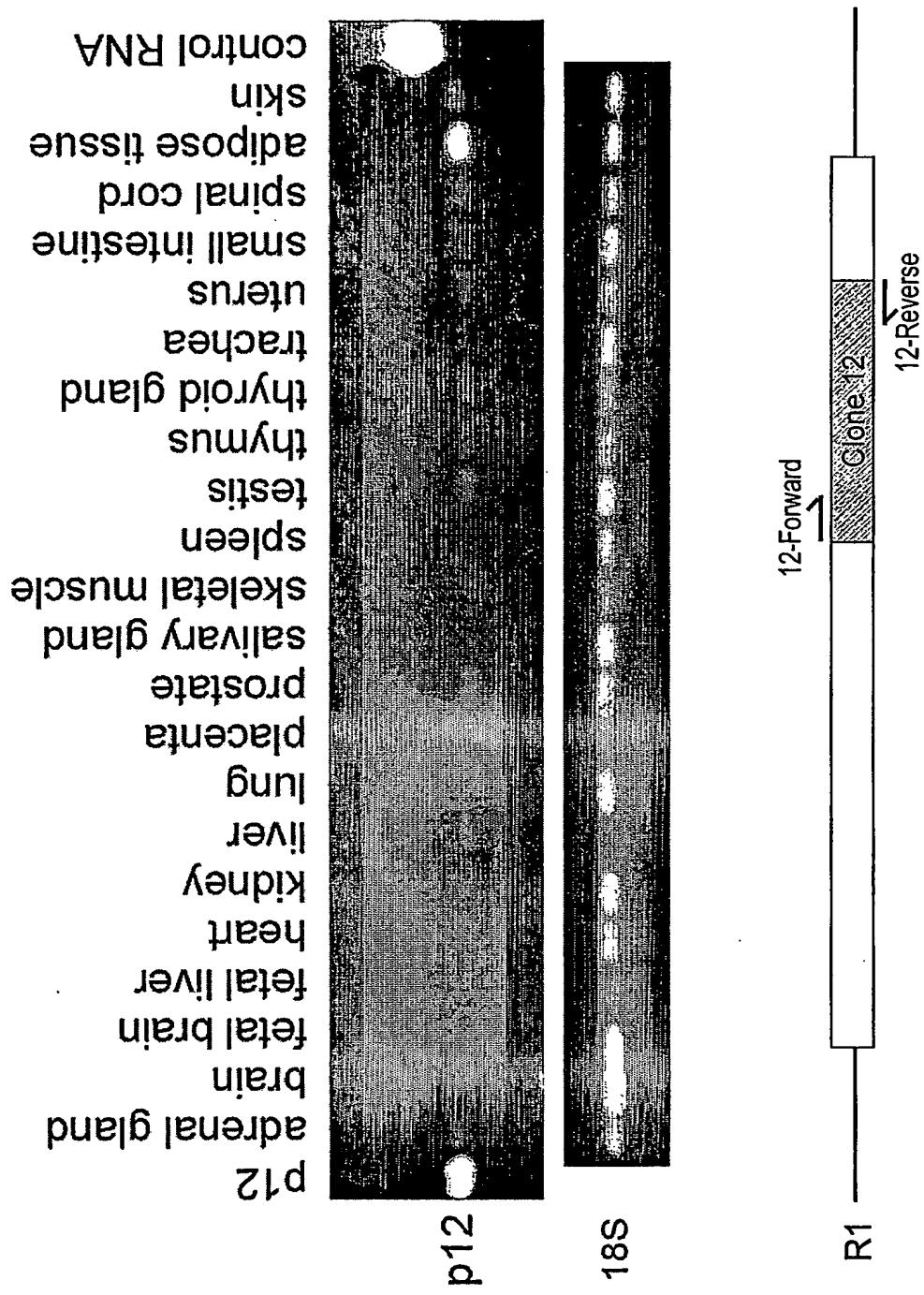


Figure 4.

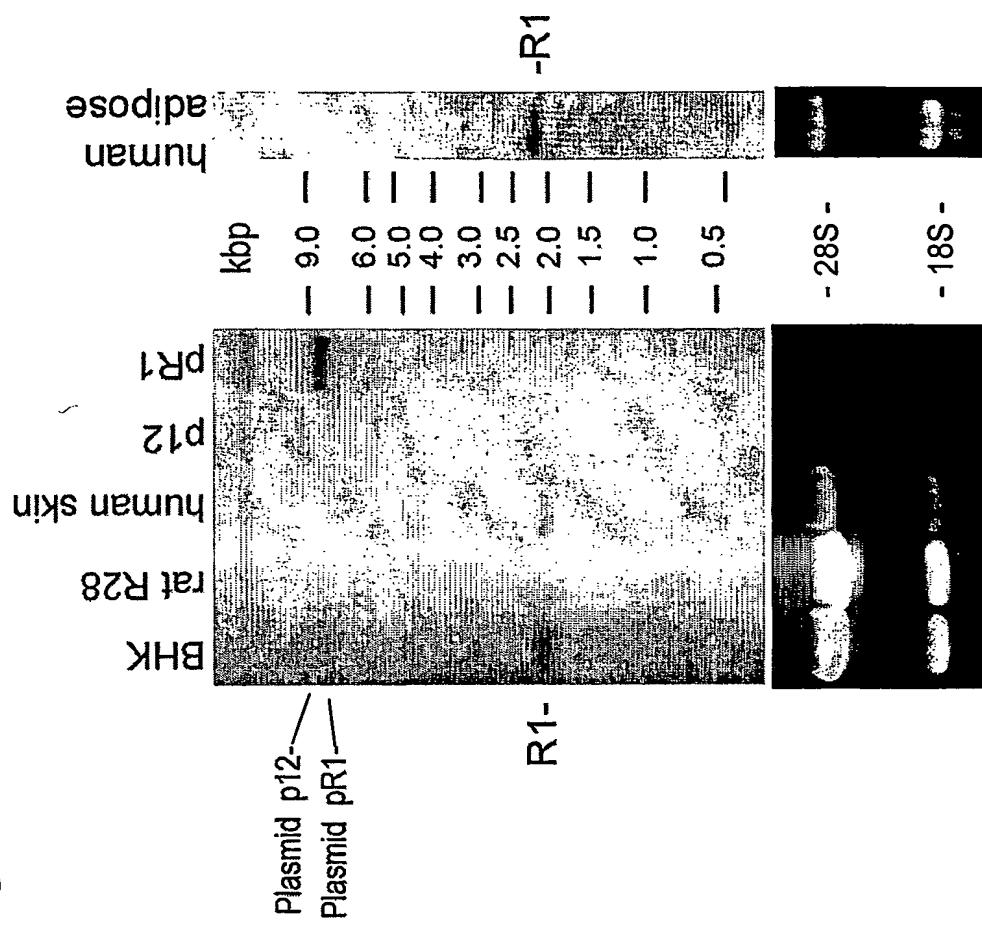


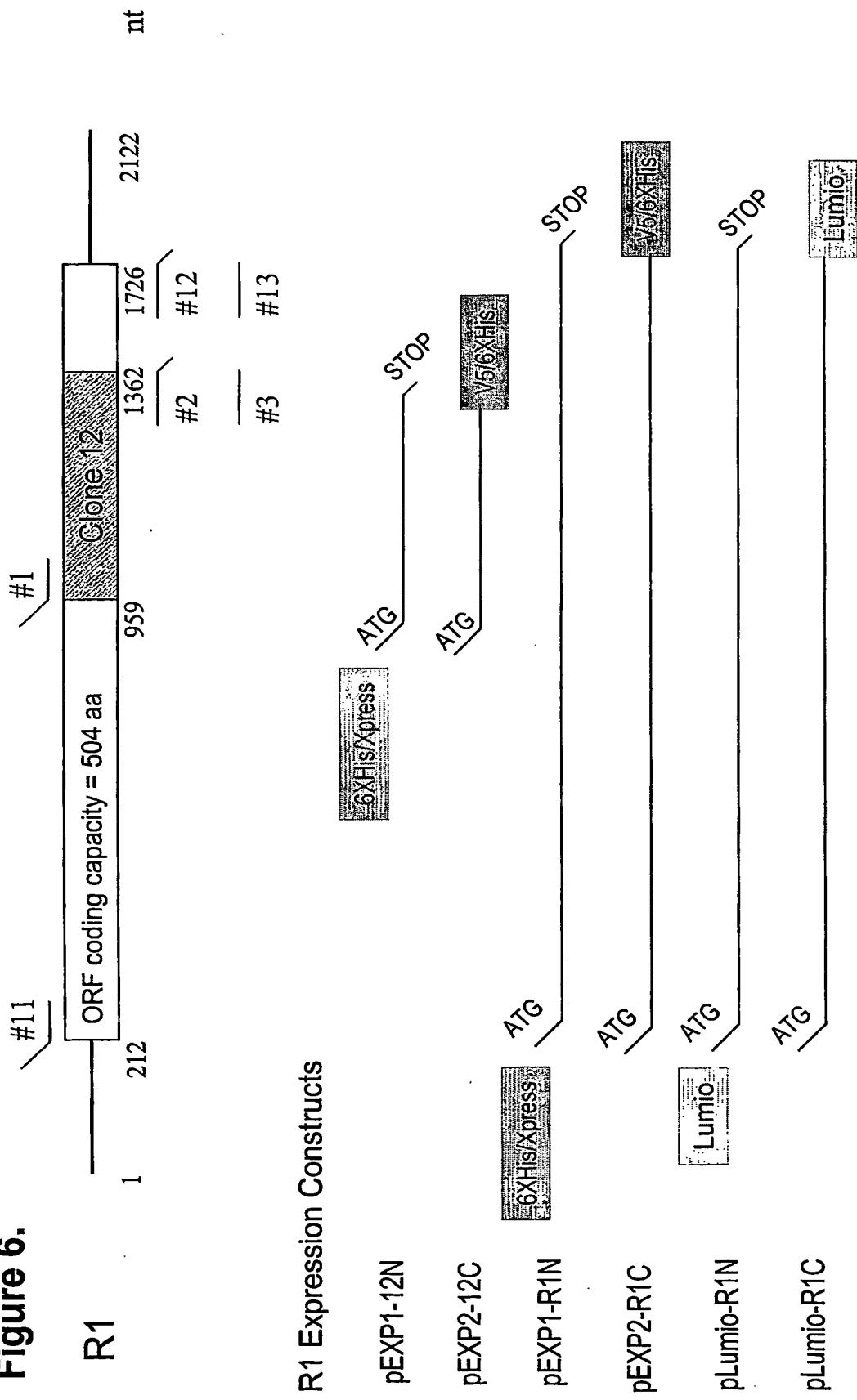
Figure 6.

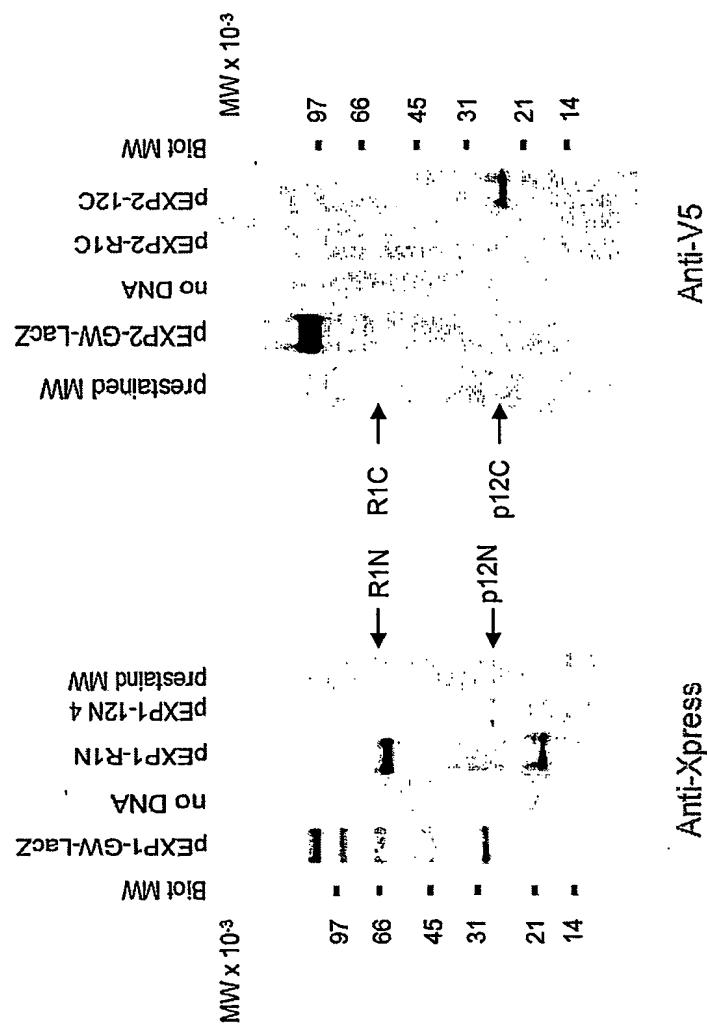
Figure 7.

Figure 8.**A. p12**
Chromatogram

SDS-PAGE
(Magic Blue stained gel)

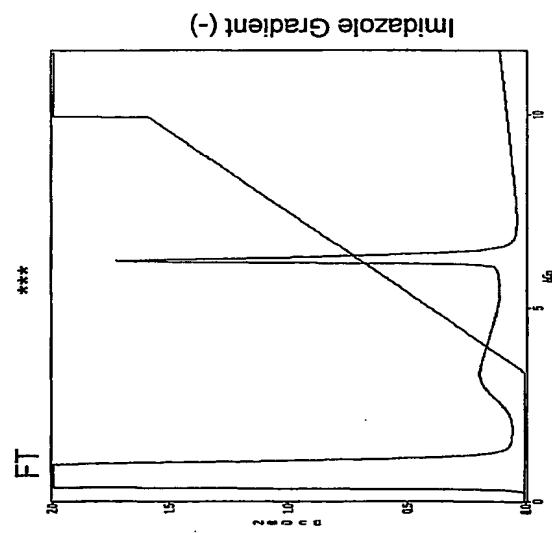
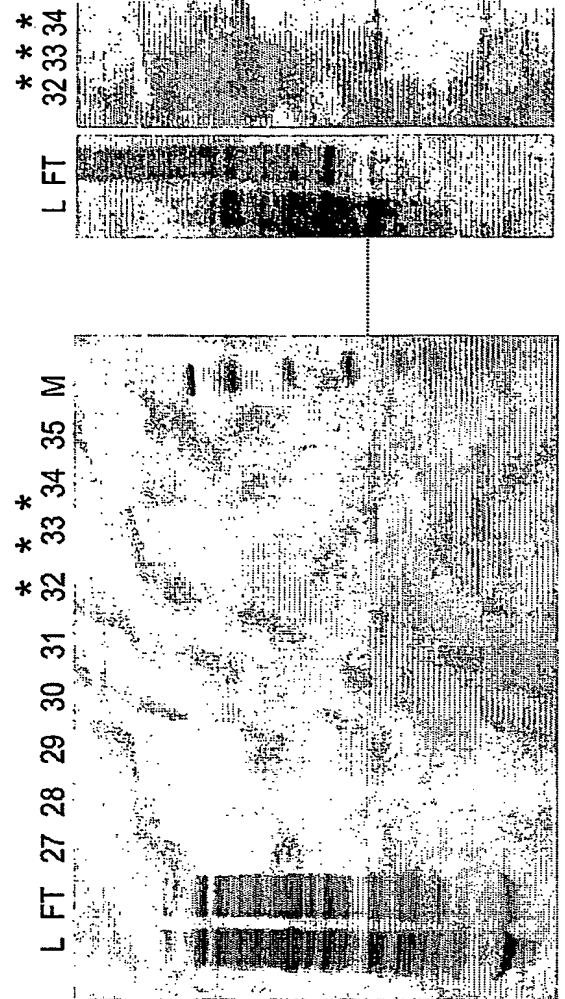
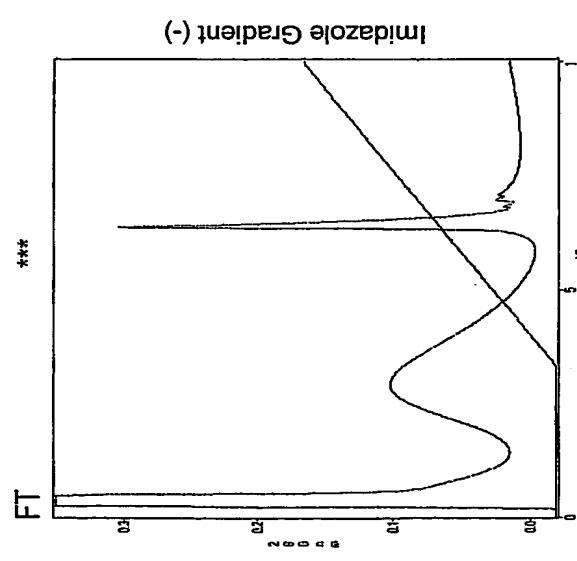


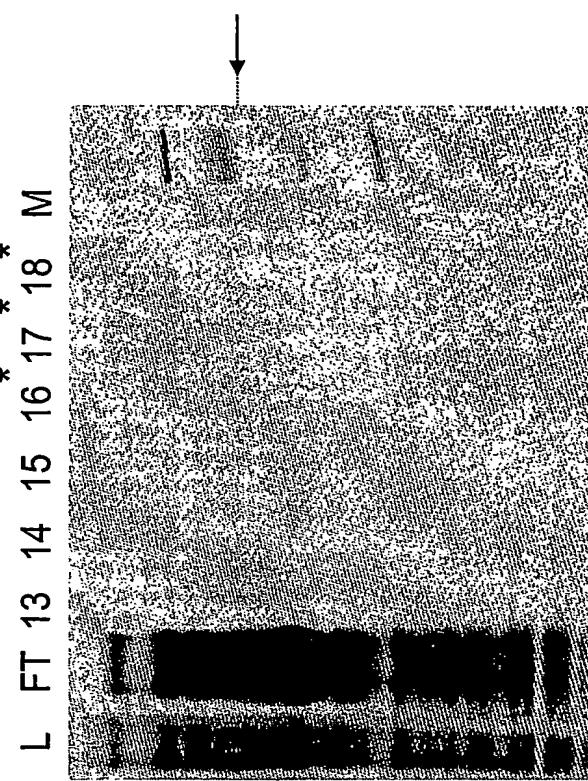
Figure 8.

B. R1

Chromatogram



SDS-PAGE (Coomassie Blue stained gel)



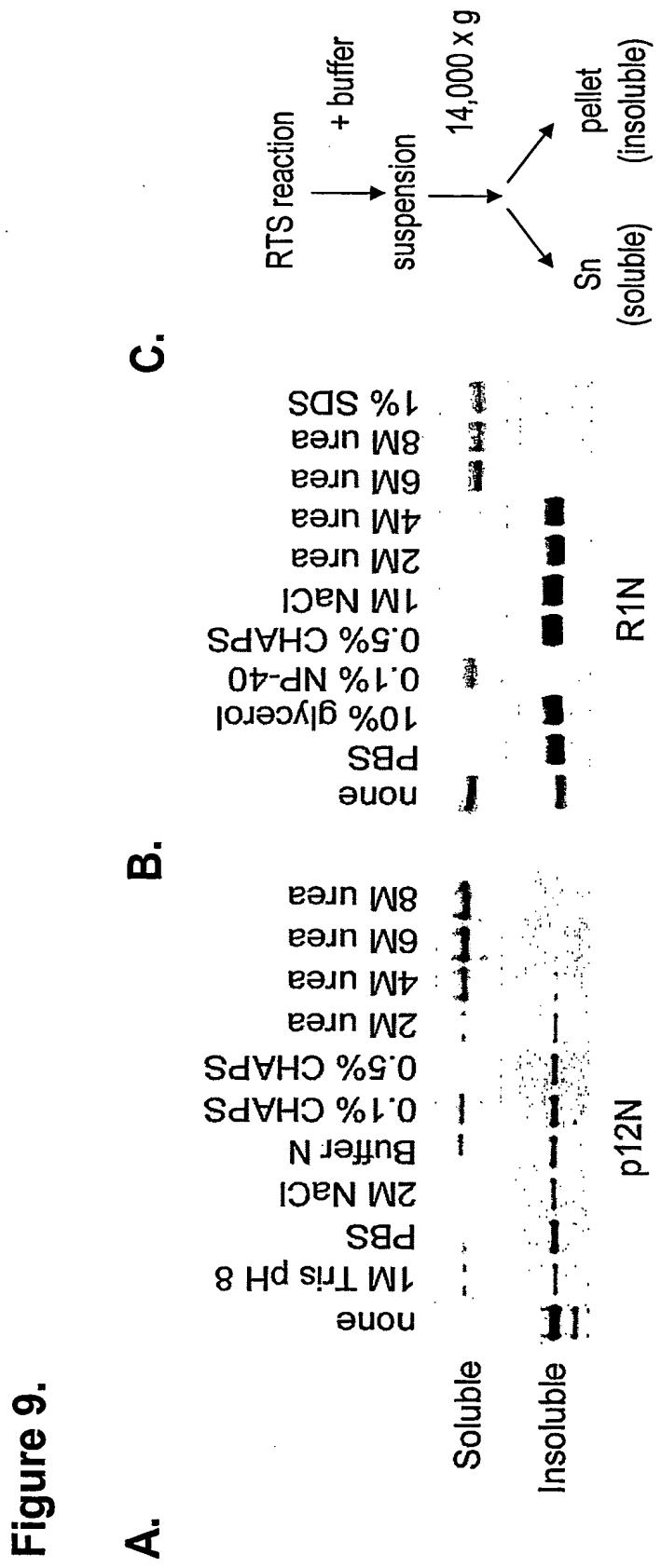


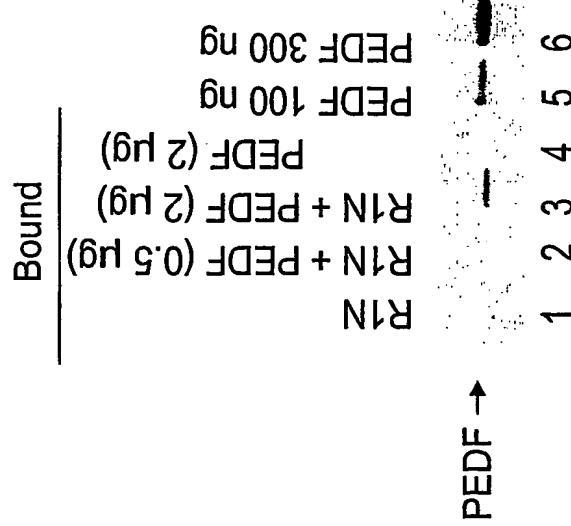
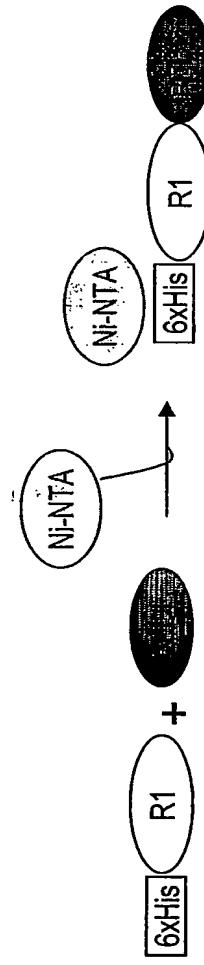
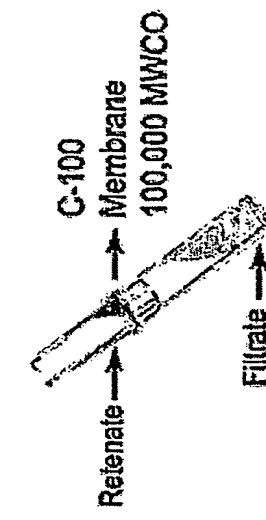
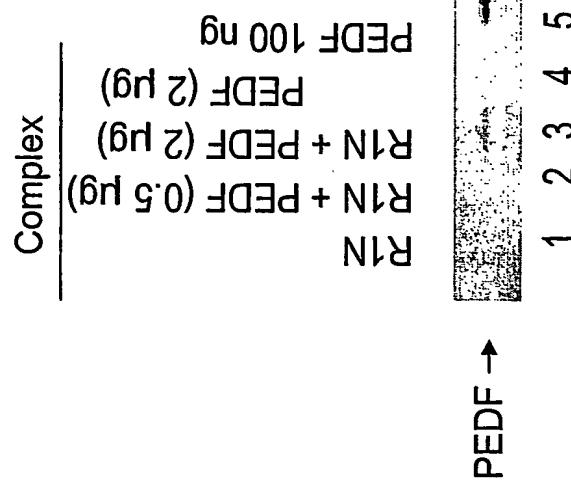
Figure 10.**A. His-tag pull-down****B. complex formation**

Figure 11.

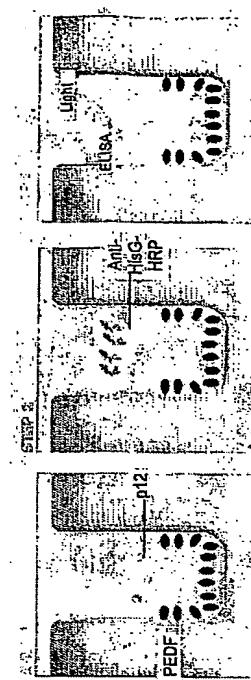
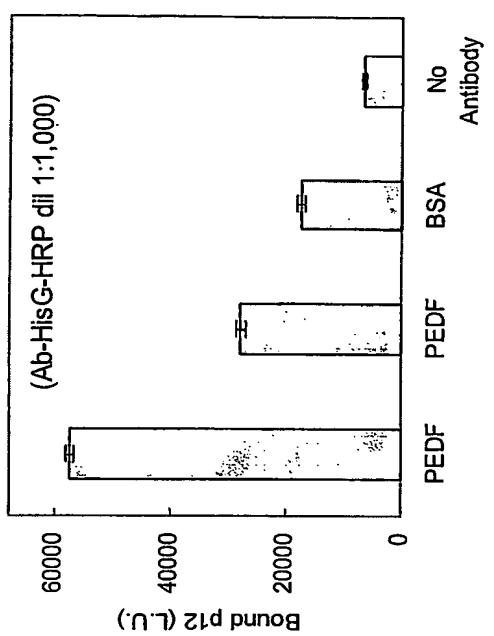
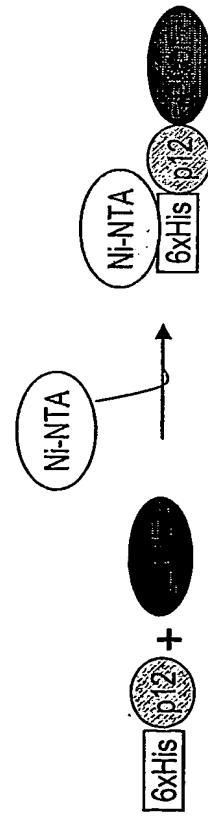
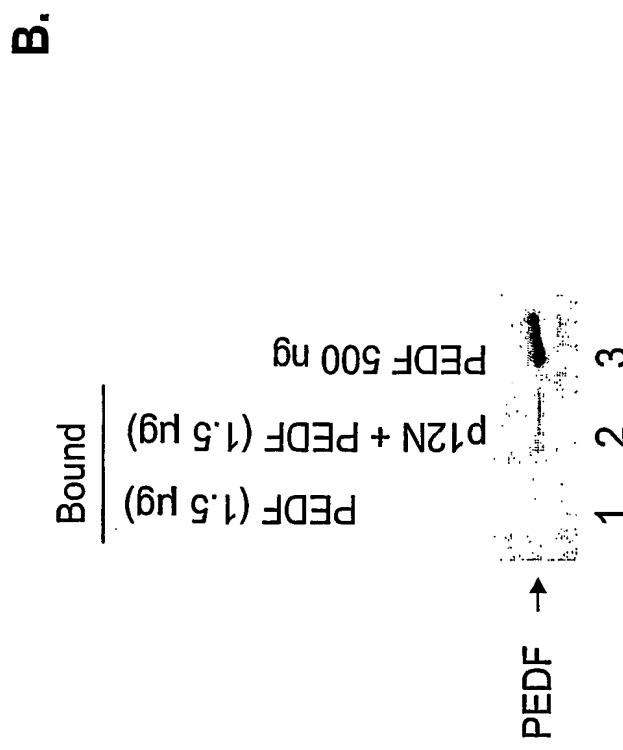


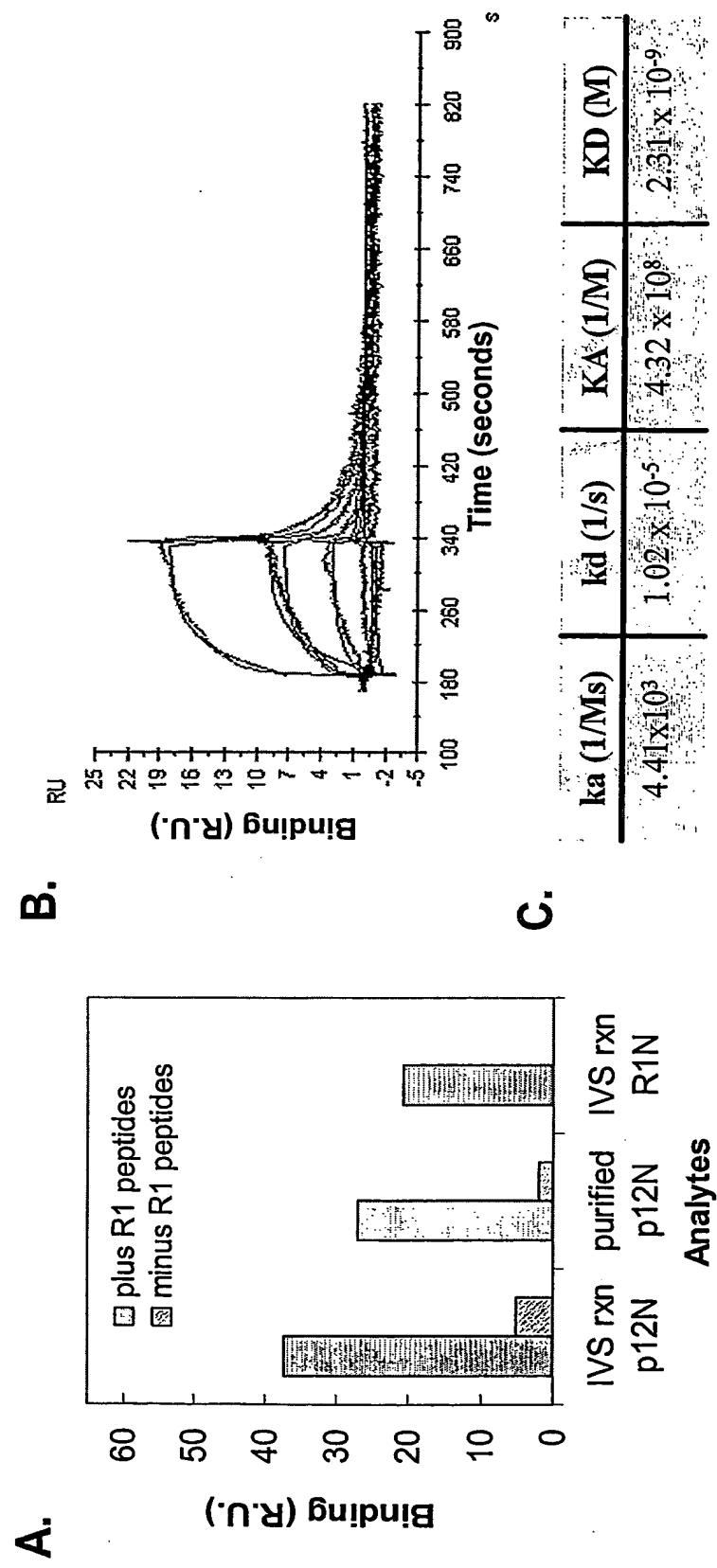
Figure 12.

Figure 13.
A.

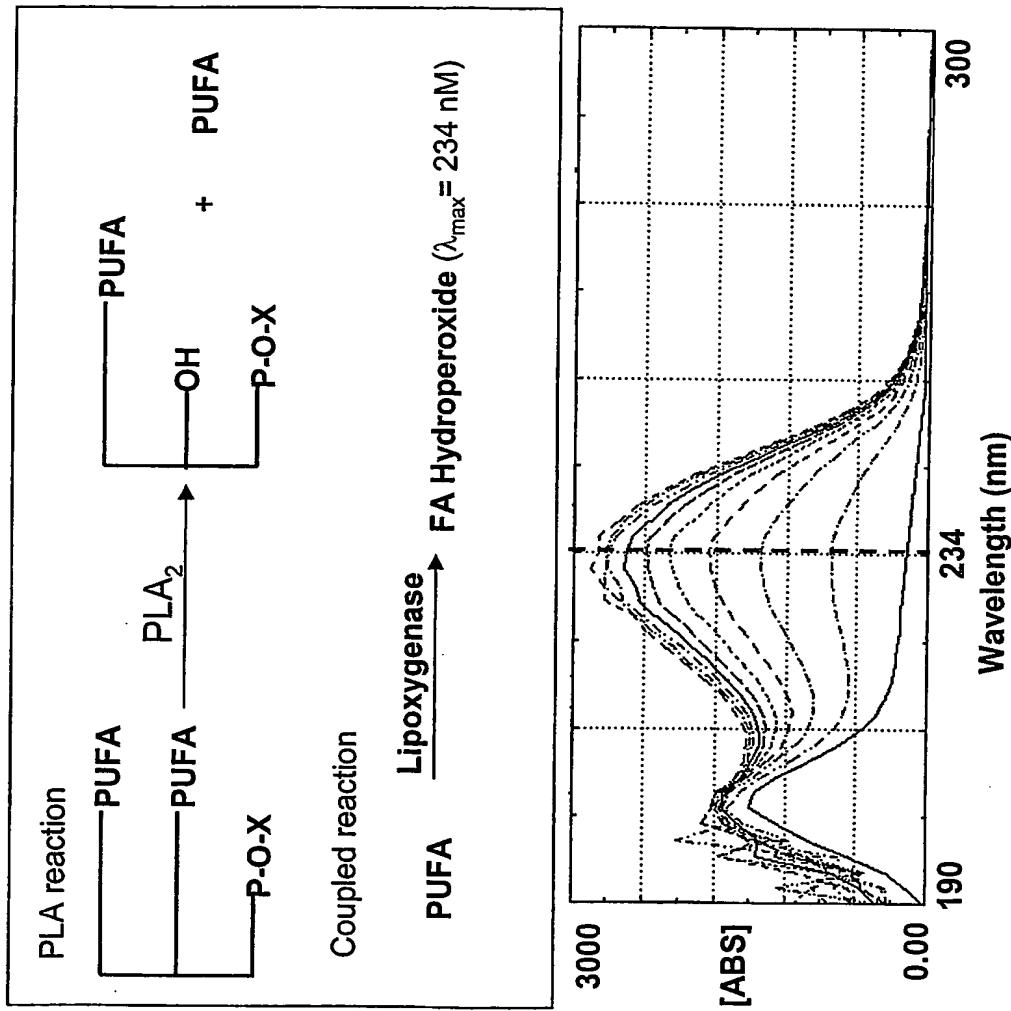
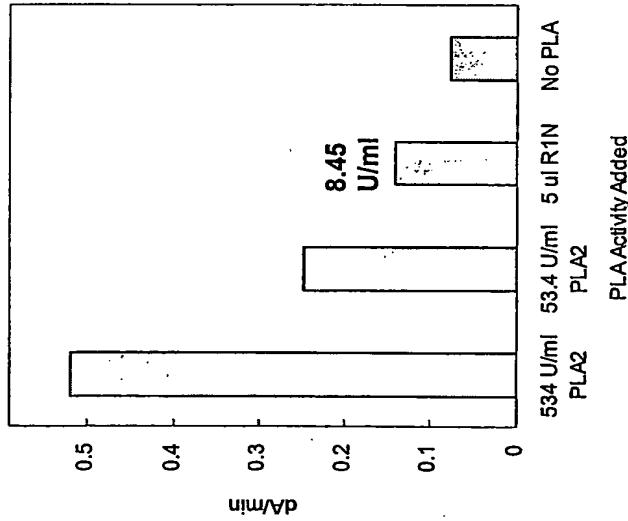
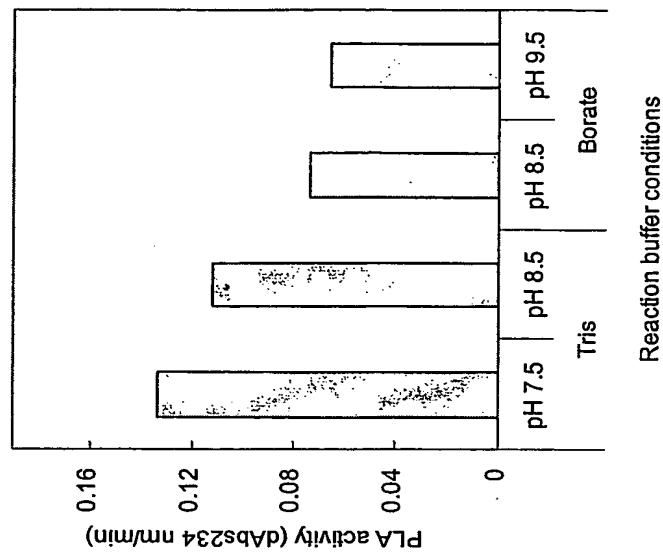


Figure 13.**B.****C.**

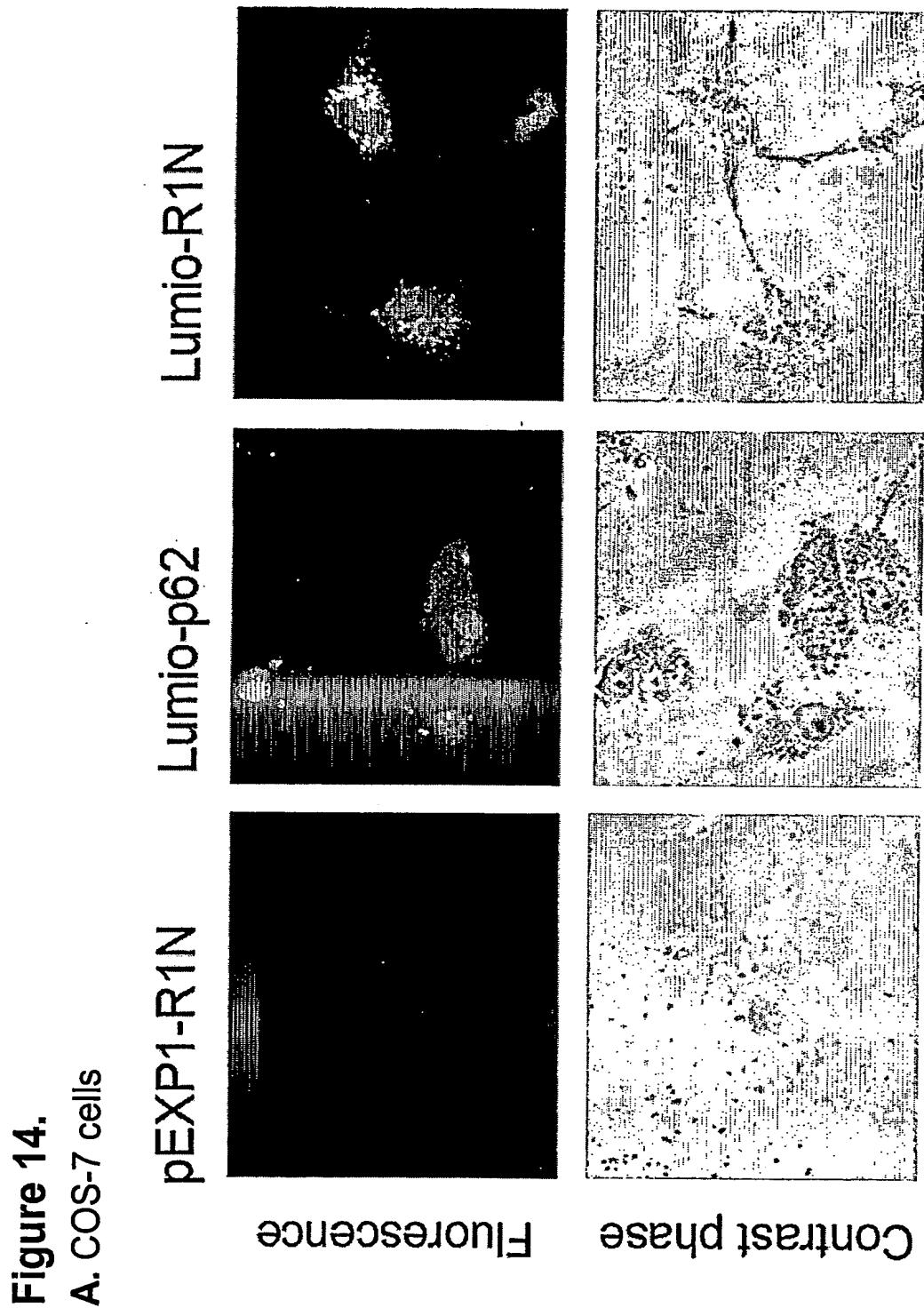


Figure 14.
B. Retinal ganglion RGC-5 cells

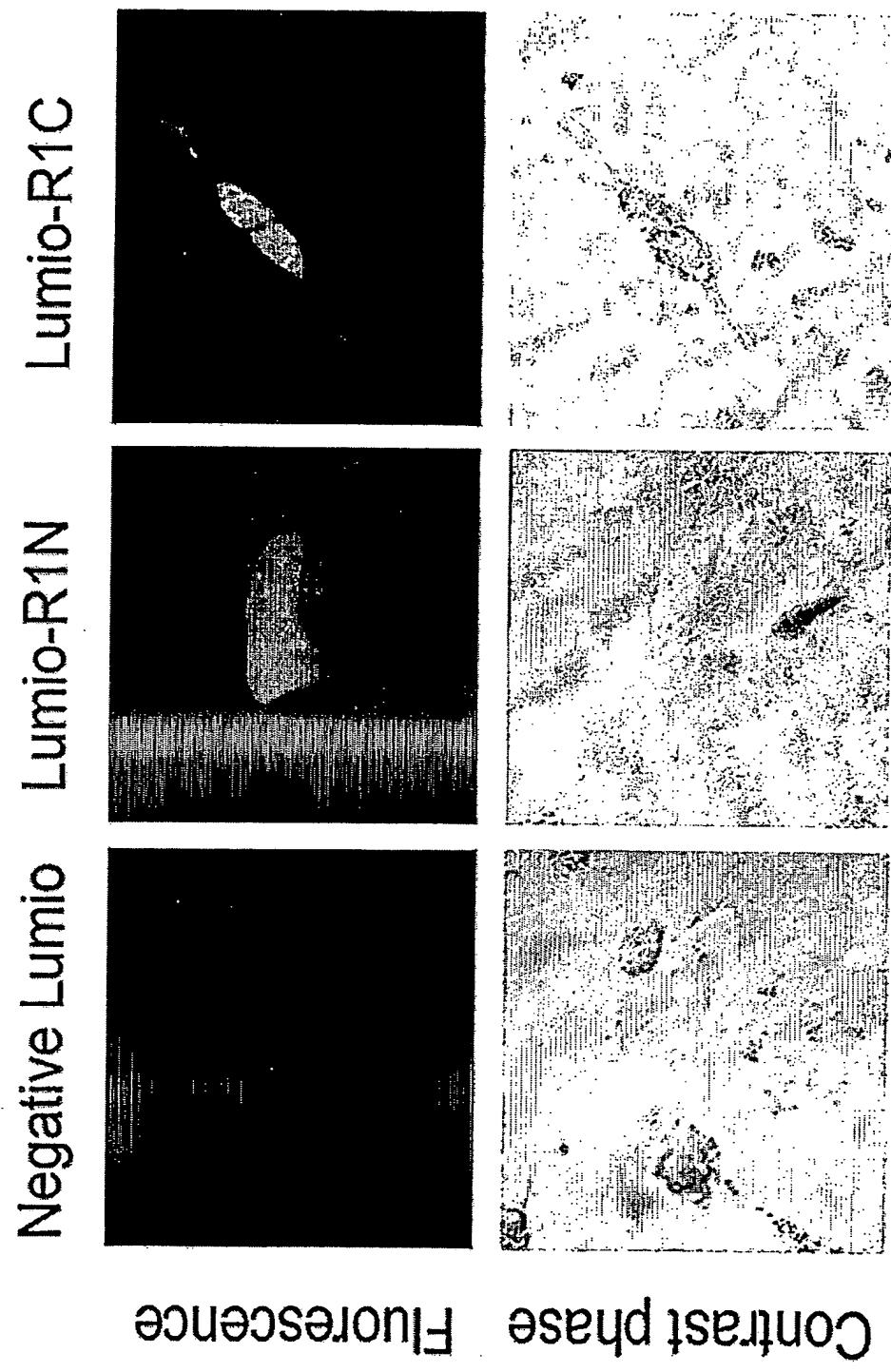
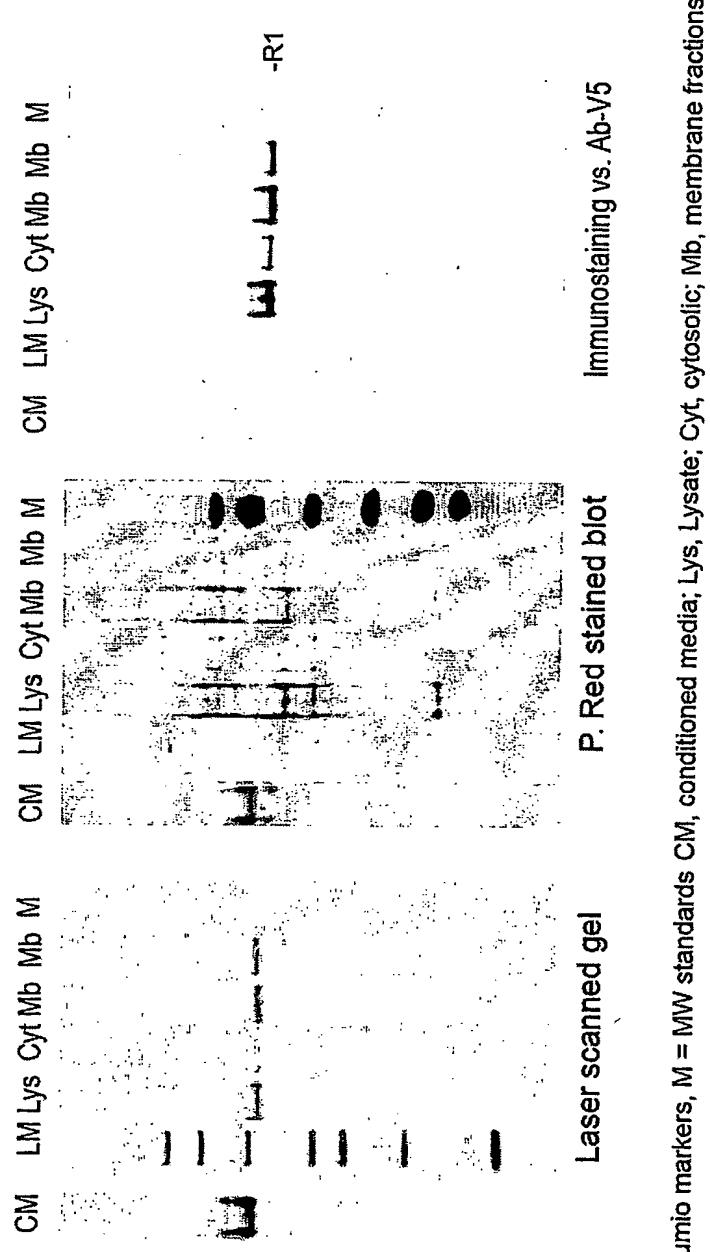


Figure 15.

LM= Lumio markers, M = MW standards CM, conditioned media; Lys, Lysate; Cyt, cytosolic; Mb, membrane fractions

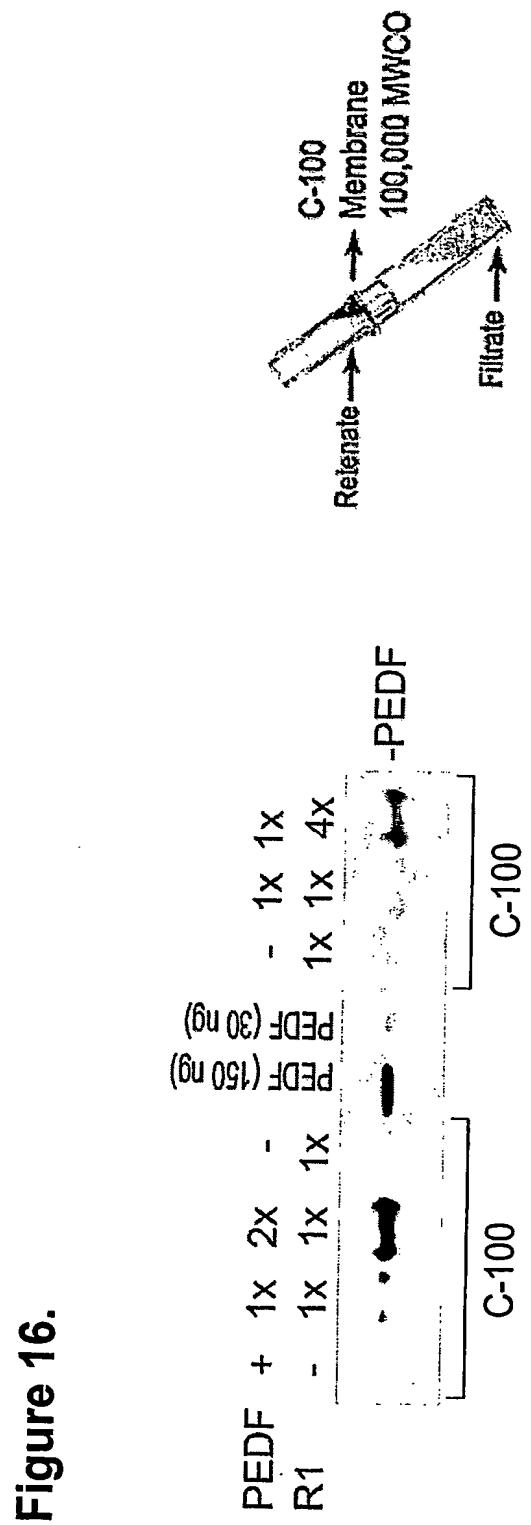


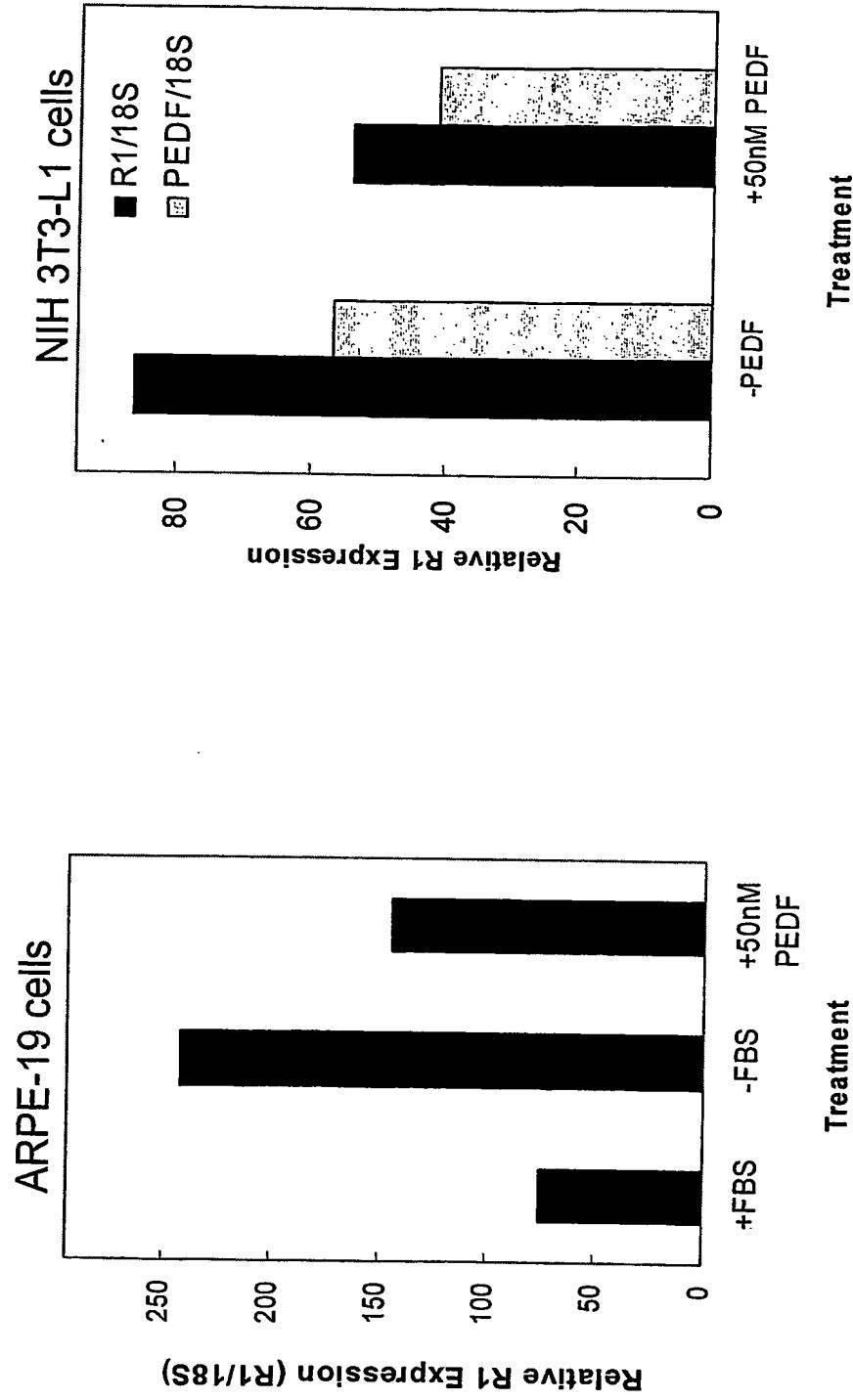
Figure 17.**A.**

Figure 17.

B.

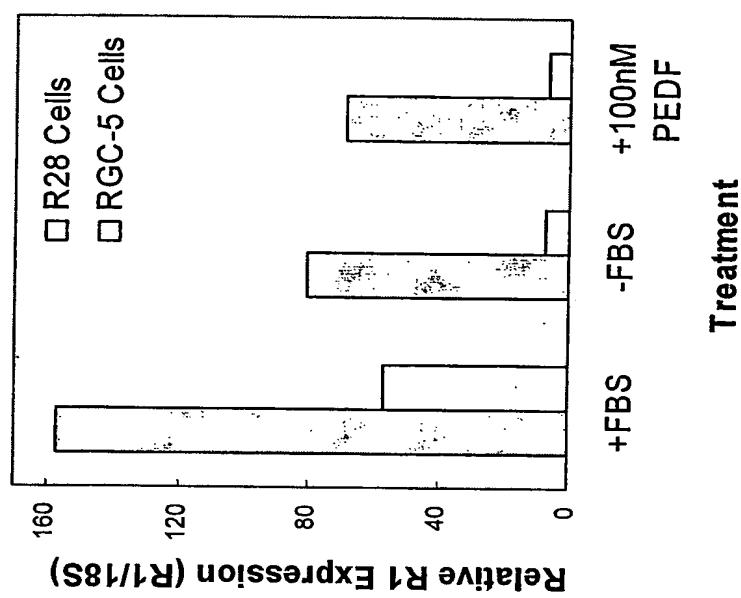


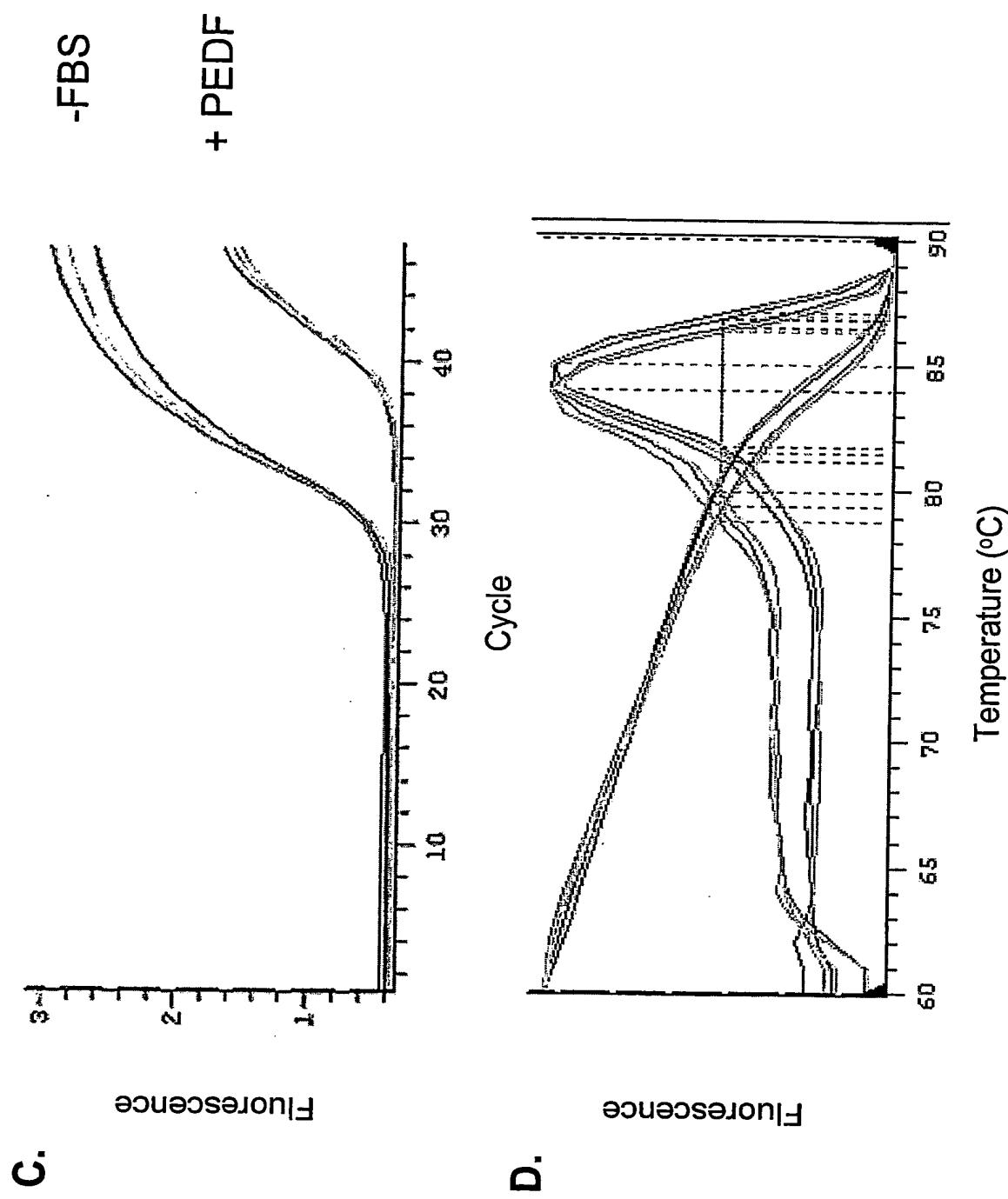
Figure 17.

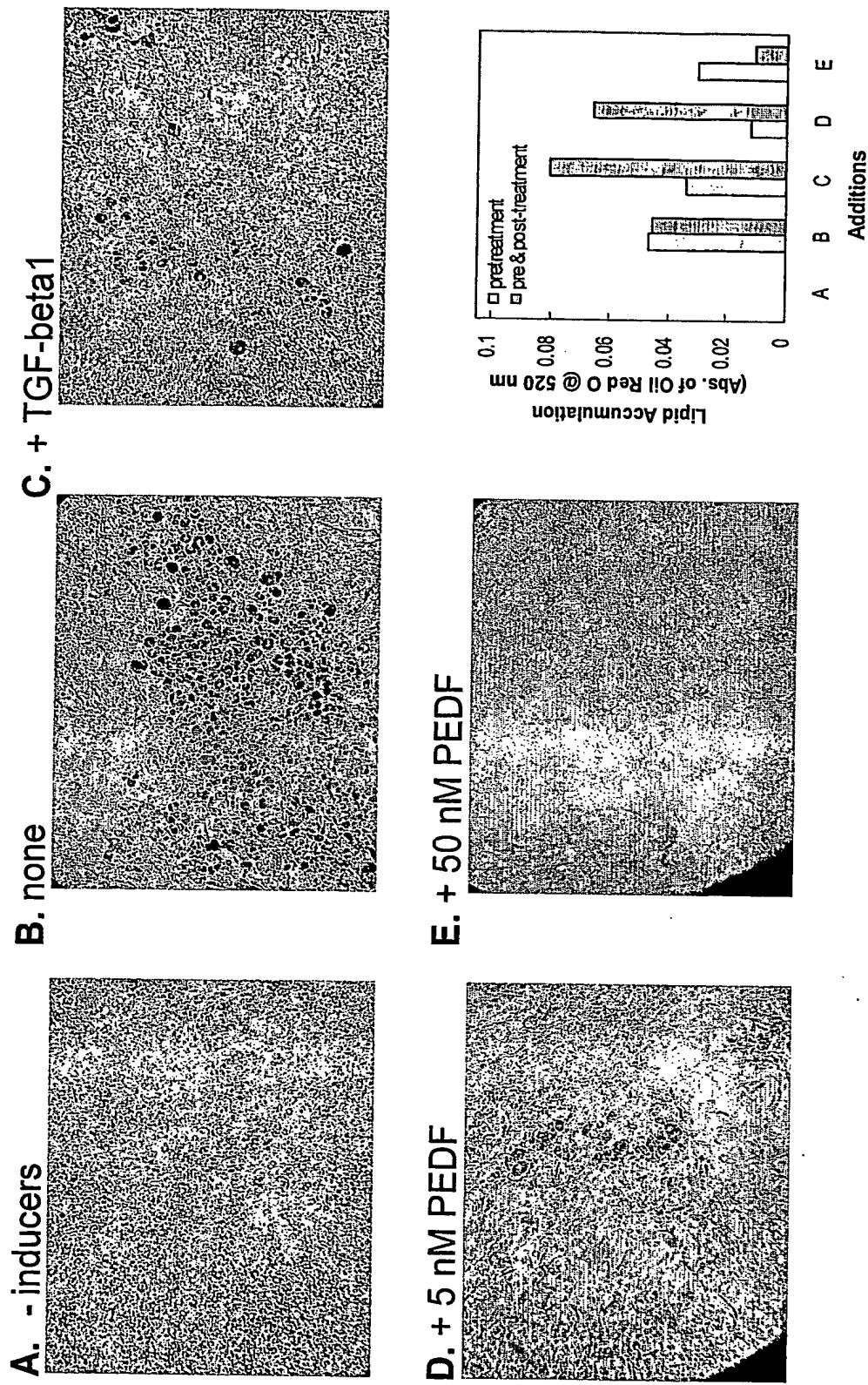
Figure 18.

Figure 19.

CLUSTAL W (1.82) multiple sequence alignment

Figure 20. (1 of 4)

CLUSTAL W (1.82) multiple sequence alignment

Figure 20. (2 of 4)

Figure 20. (3 of 4)

Figure 20. (4 of 4)

gi|26327464|dbj|AK031609.1|
gi|34861241|ref|XM_341960.1|
gi|16878146|gb|BC017280.1|BC01

GTGAAACCTTCACCAGCCACTCACTATGCTACTCCTGGTGGGGAGGGAT 1734

GTGGGGCCCCCTGCCAGCCACTCACCA-GCTGCATGCACTGAGAGGGAG 1871

gi|26327464|dbj|AK031609.1|
gi|34861241|ref|XM_341960.1|
gi|16878146|gb|BC017280.1|BC01

GGGGAGTCGCCCTCCCCGGAGGCCACAGAGCCCTCCCCGTCACGTC-- 1782

GTTTCCACACCCCTCCCTGGGCCGCTGAGGCCCGCGCACCTGTGCCTT 1921

gi|26327464|dbj|AK031609.1|
gi|34861241|ref|XM_341960.1|
gi|16878146|gb|BC017280.1|BC01

ACCTGTGCCTACTCCTGCCACCA--CCTTTCAAGTGCAGGGTCAGTCT 1830

AATCTCCCTCCCCGTGCTGCCGAGCACCTCCCCGCCCTTACTCC 1971

gi|26327464|dbj|AK031609.1|
gi|34861241|ref|XM_341960.1|
gi|16878146|gb|BC017280.1|BC01

TAAGAACTCCACATCTGCTGCTGC-TCCCTGGTGTCCAAGTTCCCTGCA 1879

TGAGAACTTGTGAGCTGCCCTCCCTCCCCGTTTCAATGGCCTGCTGAA 2021

gi|26327464|dbj|AK031609.1|
gi|34861241|ref|XM_341960.1|
gi|16878146|gb|BC017280.1|BC01

GA--GTGTGTGAAGAATTATTTATTTGGCAAAGCAGATCTAATAAAAG 1927

ATATGTGTGTGAAGAATTATTTATTTGGCAAAGCAGATCTAATAAAATG 2071

gi|26327464|dbj|AK031609.1|
gi|34861241|ref|XM_341960.1|
gi|16878146|gb|BC017280.1|BC01

CCACAGCTCAGCTTCTGCCCTCCTCACTTCTGCATGCT----- 1965

CTGCAGCCCCAAAAAAACCCCCCCCCCCCCCCCCCCCCCCCCCCCC 2121

gi|26327464|dbj|AK031609.1|
gi|34861241|ref|XM_341960.1|
gi|16878146|gb|BC017280.1|BC01

-
-
A 2122